

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	143	100.0	366	1	IHA_HUMAN	P05111 homo sapien
2	140	97.9	367	1	IHA_HORSE	P55101 equus caball
3	135	94.4	265	1	IHA_SHEEP	P38400 ovis aries
4	133	94.4	360	1	IHA_BOVIN	P07994 bos taurus
5	131	91.6	364	1	IHA_PIG	P04087 sus scrofa
6	131	91.6	366	1	IHA_MOUSE	Q04997 mus musculus
7	128	89.5	366	1	IHA_RAT	P17490 rattus norv
8	124	86.7	361	1	IHA_TRIVU	O77755 trichosurus
9	102	71.3	329	1	IHA_CHICK	P43031 gallus gall
10	55.5	38.8	368	1	GP62_HUMAN	Q96277 homo sapien
11	53	37.1	352	1	TPO_CANFA	P42705 canis famill
12	50	35.0	192	1	NIF2_FRANAL	P46040 frankia alba
13	50	35.0	528	1	DRTS_DAUCA	P45350 daucus caro
14	48.5	33.9	888	1	SM6B_HUMAN	Q9h3t3 homo sapien
15	48	33.6	606	1	HM1D_DROAN	P22544 drosophila
16	47.5	33.2	885	1	SM6B_MOUSE	O54951 mus musculus
17	47.5	33.2	887	1	SM6B_RAT	O70141 rattus norv
18	47	32.9	303	1	SPA0_SALDU	Q33968 salmonella
19	47	32.9	303	1	SPA0_SALTI	Q56032 salmonella
20	47	32.9	303	1	SPA0_SALFY	P40699 salmonella
21	47	32.9	442	1	BNB_DROME	P29746 drosophila
22	47	32.9	518	1	DR72_ARATH	Q05763 arabidopsis
23	47	32.9	519	1	DR71_ARATH	Q05762 arabidopsis
24	47	32.9	2504	1	FAS_HUMAN	P49327 homo sapien
25	46.5	32.5	627	1	PLGB_BACSU	P39118 bacillus su
26	46	32.2	834	1	PLGB_PSEAE	Q9hxx7 pseudomonas
27	46	32.2	1493	1	M3X1_MOUSE	P53349 mus musculus
28	46	32.2	1509	1	GSR1_HUMAN	Q9czm4 homo sapien
29	45.5	31.8	510	1	CHL3A_CHLIV	P56302 chlorella v
30	45.5	31.8	646	1	PIXB_HUMAN	Q14155 homo sapien
31	45.5	31.8	646	1	PIXB_RAT	O55043 rattus norv
32	45	31.5	95	1	VE4_HPV16	P06922 human papil
33	45	31.5	338	1	PAHX_RAT	P57093 rattus norv

CC INHIBIN B IS A DIMER OF ALPHA AND BETA-B.

CC -1- TISSUE SPECIFICITY: ORIGINALLY FOUND IN OVARY (GRANULOSA CELLS)

CC AND TESTIS (SEKTOLE CELLS) BUT IT IS WIDELY DISTRIBUTED IN MANY

CC TISSUES INCLUDING BRAIN AND PLACENTA. IN ADRENAL CORTEX EXPRESSION

CC IS LIMITED TO THE ZONA RETICULARIS AND THE INNERMOST ZONA

CC FASCICULATA IN THE NORMAL GLAND, EXTENDING CENTRIPETALLY INTO THE

CC ZONA FASCICULATA IN HYPERPLASIA. ALSO FOUND IN ADRENOCORTICAL

CC TUMORS. ALSO EXPRESSED IN PROSTATE EPITHELIUM OF BENIGN PROSTATIC

CC HYPERPLASIA, IN REGIONS OF BASAL CELL HYPERPLASIA AND IN

CC NONMALIGNANT REGIONS OF HIGH GRADE PROSTATE CANCER. ONLY

CC CIRCULATING INHIBIN B IS FOUND IN MALE, WHEREAS CIRCULATING

CC INHIBINS A AND B ARE FOUND IN FEMALE.

CC -1- SIMILARITY: BELONGS TO THE TGF-BETA FAMILY.

CC -----

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CC -----

CC EMBL; M13981; AAA59166.1; -

CC EMBL; M13144; AAA59167.1; -

CC EMBL; BC006391; AAH06391.1; -

CC EMBL; X04445; CAA28040.1; -

CC EMBL; X04446; CAA28040.1; JOINED.

CC EMBL; A14420; CAA01158.1; -

CC PIR; A23556; A23556.

CC PIR; A24248; A24248.

CC PIR; B25947; B25947.

CC Genew; HGNC:6065; INHA.

CC MIM; 147380; -

CC InterPro; IPR002405; Inhbin_alpha.

CC InterPro; IPR001839; TGFb.

CC Pfam; PF00019; TGF-beta; 1.

CC PRINTS; PR00669; INHIBIN.

CC ProDom; PD000357; TGFb; 1.

CC SMART; SM00204; TGFb; 1.

CC PROSITE; PS00250; TGF-BETA.1; 1.

CC Growth factor; Hormone; Glycoprotein; Signal.

CC SIGNAL 1 18 POTENTIAL.

CC PROPEP 19 232

CC CHAIN 23 366

CC INHIBIN ALPHA CHAIN.

CC BY SIMILARITY.

CC DISULFID 262 368

CC BY SIMILARITY.

CC DISULFID 291 363

CC BY SIMILARITY.

CC DISULFID 295 365

CC BY SIMILARITY.

CC DISULFID 327 327

CC INTERCHAIN (BY SIMILARITY).

CC CARBOHYD 146 146

CC N-LINKED (GLCNAC. . .) (POTENTIAL).

CC CARBOHYD 268 268

CC N-LINKED (GLCNAC. . .) (POTENTIAL).

CC CARBOHYD 302 302

CC N-LINKED (GLCNAC. . .) (POTENTIAL).

CC CONFLICT 17 17

CC H -> V (IN REF. 4).

CC CONFLICT 19 19

CC C -> S (IN REF. 4).

CC SEQUENCE 366 AA; 39669 MR; 0E03D2AB12HF8E57 CRC64;

Query Match 100.0%; Score 143; DB 1; Length 366;

Best Local Similarity 100.0%; Pred. No. 2e-12;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PWSPSALRLQRPPEPAHANCHR 25

|||||

Db 240 PWSPSALRLQRPPEPAHANCHR 264

|||||

RESULT 2

THA_HORSE

10 THA_HORSE STANDARD; PRT: 367 AA.

AC P55101; Q28370;

DT 01-OCT-1996 (Rel. 34, Created)

DT 01-OCT-1996 (Rel. 34, Last sequence update)

DT 16-OCT-2001 (Rel. 40, Last annotation update)

DE Inhibin alpha chain precursor.

GN INHA.

OS Equus caballus (Horse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Perissodactyla; Equidae; Equus.

OX NCBI_TaxID=9796;

RN [1]

RP SEQUENCE FROM N.A.

RC TISSUE=Ovary;

RX MEDLINE=961559857; PubMed=8593300;

RA Yamamoto K., Yoshida S., Hasegawa T., Ikeda A., Chang K.T.,

RA Matsuyama S., Nishihara M., Miyazawa K., Takahashi M.;

RT "Molecular cloning of cDNA for inhibin alpha-subunit from equine

RT ovary."

RL J. Vet. Med. Sci. 57:905-909(1995).

RN [2]

RP SEQUENCE OF 98-367 FROM N.A.

RC TISSUE=Testis;

RA Adams M.H., Baker C.B., McDowell K.J.;

RT "Molecular cloning and sequencing of equine inhibin alpha cDNA."

EL Anim. Biotechnol. 7:11-9(1996).

CC -1- FUNCTION: INHIBINS AND ACTIVINS INHIBIT AND ACTIVATE,

CC RESPECTIVELY, THE SECRETION OF FOLLITROPIN BY THE PITUITARY GLAND.

CC INHIBINS/ACTIVINS ARE INVOLVED IN REGULATING A NUMBER OF DIVERSE

CC FUNCTIONS SUCH AS HYPOTHALAMIC AND PITUITARY HORMONE SECRETION,

CC GONADAL HORMONE SECRETION, GERM CELL DEVELOPMENT AND MATURATION,

CC ERYTHROID DIFFERENTIATION, INSULIN SECRETION, NERVE CELL SURVIVAL,

CC EMBRYONIC AXIAL DEVELOPMENT OR BONE GROWTH, DEPENDING ON THEIR

CC SUBUNIT COMPOSITION. INHIBINS APPEAR TO OPPOSE THE FUNCTIONS OF

CC ACTIVINS.

CC -1- SUBUNIT: DIMERIC, LINKED BY ONE OR MORE DISULFIDE BONDS.

CC INHIBIN A IS A DIMER OF ALPHA AND BETA-A.

CC INHIBIN B IS A DIMER OF ALPHA AND BETA-B.

CC -1- SIMILARITY: BELONGS TO THE TGF-BETA FAMILY.

CC -----

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CC -----

CC EMBL; D50327; AAB08863.1; -

CC EMBL; U21219; AAB08874.1; -

CC InterPro; IPR002405; Inhbin_alpha.

CC InterPro; IPR001839; TGFb.

CC Pfam; PF00019; TGF-beta; 1.

CC PRINTS; PR00669; INHIBIN.

CC ProDom; PD000357; TGFb; 1.

CC SMART; SM00204; TGFb; 1.

CC PROSITE; PS00250; TGF-BETA.1; 1.

CC Growth factor; Hormone; Glycoprotein; Signal.

CC SIGNAL 1 20 POTENTIAL.

CC PROPEP 21 233

CC BY SIMILARITY.

CC CHAIN 234 367

CC INHIBIN ALPHA CHAIN.

CC BY SIMILARITY.

CC DISULFID 263 329

CC BY SIMILARITY.

CC DISULFID 292 364

CC BY SIMILARITY.

CC DISULFID 296 366

CC BY SIMILARITY.

CC DISULFID 328 328

CC INTERCHAIN (BY SIMILARITY).

CC CARBOHYD 147 147

CC N-LINKED (GLCNAC. . .) (POTENTIAL).

CC CARBOHYD 269 269

CC N-LINKED (GLCNAC. . .) (POTENTIAL).

CC CONFLICT 105 105

CC Q -> R (IN REF. 2).

CC CONFLICT 171 171

CC G -> R (IN REF. 2).

CC CONFLICT 176 176

CC C -> R (IN REF. 2).

CC SEQUENCE 367 AA; 39422 MR; DC8A6EB2C84B2C61 CRC64;

Query Match 97.9%; Score 140; DB 1; Length 367;

Best Local Similarity 96.0%; Pred. No. 5e-12;

Matches 24; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PWSPSALRLQRPPEPAHANCHR 25

|||||

Db 241 PWSPSALRLQRPPEPAHANCHR 265

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Query Match      94.48;  Score 135;  DB 1;  Length 265;
Best Local Similarity 92.08;  Pred. No. 1,7e-11;
Matches 23;  Conservative 2;  Mismatches 0;  Indels 0;  Gaps 0;

      QY      1  PWSPALRLQLQRPPEPAAHANCHR 25
      |||||
      DB      139 PWSPALRLQLQRPPEPAAHADCHR 163

RESULT 4
ID  IHA_BOVIN
AC  P07994;
STANDARD;  PRT;  360 AA.

DT      01-AUG-1988 (Rel. 08, Created)
DD      01-AUG-1988 (Rel. 08, Last sequence update)

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Query Match          94.4% Score 135: DR 1; Length 360;
Best local Similarity 92.0%; Pred.No. 2.4e-11;
Matches 23; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 PWSPALRLQLRPPEPAAHANCHR 25
DB      234 PWSPALRLQLRPPEPAAHADCHR 258
        IIIIIIIIIIIIIIIIIIIIII

RESULT 5
IHA_PIG
ID IHA_PIG STANDARD; PROT; 364 AA.
AC PQ067;
LT 01-NOV-1986 (Rel. 03, Created)
DT 01-APR-1988 (Rel. 07, Last sequence update)
DI 16-OCT-2001 (Rel. 40, Last annotation update)
DE Inhibin alpha chain precursor.
DS INHA.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OX Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OC NCBI_TaxId=9823;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=86287350; PubMed=3016724;
RA Mayo K.E., Cerelli G.M., Spless J., Rivier J., Rosenfeld M.G.,
RA Evans R.M., Vale W.;
RT "Inhibin A-subunit cDNAs from porcine ovary and human placenta.";
KL Proc. Natl. Acad. Sci. U.S.A. 83:5849-5853(1986).
RN [2]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 231-256.
RX TISSUE=Ovarian follicular fluid;
RA MEDLINE=86092207; PubMed=2417121;
RA Mason A.J., Hayflick J.S., Ling N., Esch F., Ueno N., Ying S.-Y.,
RA Guillemin R., Niall H., Seeburg P.H.;
RT "Complementary DNA sequences of ovarian follicular fluid inhibit show
RT precursor structure and homology with transforming growth
RT factor-beta.";
KL Nature 318:659-663(1985).
CC -!- FUNCTION: INHIBINS AND ACTIVINS INHIBIT AND ACTIVATE,
CC RESPECTIVELY, THE SECRETION OF FOLLITROPIN BY THE PITUITARY GLAND.
CC INHIBINS/ACTIVINS ARE INVOLVED IN REGULATING A NUMBER OF DIVERSE
CC FUNCTIONS SUCH AS HYPOTHALAMIC AND PITUITARY HORMONE SECRETION,
CC GONADAL HORMONE SECRETION, GERM CELL DEVELOPMENT AND MATURATION,
CC ERYTHROID DIFFERENTIATION, INSULIN SECRETION, NERVE CELL SURVIVAL,
CC EMBRYONIC AXIAL DEVELOPMENT OR BONE GROWTH, DEPENDING ON THEIR
CC SUBUNIT COMPOSITION. INHIBINS APPEAR TO OPPOSE THE FUNCTIONS OF
CC ACTIVINS.
CC -!- SUBUNIT: DIMERIC, LINKED BY ONE OR MORE DISULFIDE BONDS.
CC INHIBIN A IS A DIMER OF ALPHA AND BETA-A.
CC INHIBIN B IS A DIMER OF ALPHA AND BETA-B.
CC -!- SIMILARITY: BELONGS TO THE TGF-BETA FAMILY.
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CC -----
DR EMBL; M13980; AAA31057.1; -.
DR EMBL; X03265; CAA27019.1; -.
DR PIR; A01392; WPGA.
DR PIR; A25947; A25947.
DR InterPro; IPRO002405; Inhibin_alpha.
DR InterPro; IPRO01839; TGFB.
DR Pfam; PF00019; TGF-beta; 1.
DR PRINTS; PR00669; INHIBINA.
DR ProDom; PD000457; TGFB; 1.
DR SMART; SM00204; TGFB; 1.
DR PROSITE; PS00250; TGF_BETA_1; 1.
DR Growth factor; Hormone; Glycoprotein; Signal.

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DR Pfam; PF00019; TGF-beta; 1.
DR PRINTS; PR00669; INHIBIN.
DR PRODOM; PD00357; TGFb; 1.
DR SMART; SM00204; TGFb; 1.
DR PROSITE; PS00250; TGF_BETA.1; 1.
KW Growth factor; Hormone; Glycoprotein; Signal.
FT SIGNAL 1 20 POTENTIAL.
FT PROPEP 21 233
FT CHAIN 234 366 INHIBIN ALPHA CHAIN.
FT DISULFID 263 328 BY SIMILARITY.
FT DISULFID 292 363 BY SIMILARITY.
FT DISULFID 296 365 BY SIMILARITY.
FT DISULFID 327 327 INTERCHAIN (BY SIMILARITY).
FT CARBOHYD 147 147 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 269 269 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ SEQUENCE 366 AA; 39496 MW; 327A233B9FEFCDC CRC64;

Query Match 89.5%; Score 128; DB 1; Length 366;
Best Local Similarity 88.0%; Pred. No. 2.2e-10;
Matches 22; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PWSPSALRLRLRPPEPAHAHANCHR 25
    ||||| ||||| ||||| ||||| |||||
Db 241 PWSPAALRLRLRPPEPSAFAFCHR 265

RESULT 8
ID IHA_TRIVU STANDARD: PRT; 361 AA.
AC 077755;
DT 15-JUL-1999 (Rel. 38, Created)
DT 15-JUL-1999 (Rel. 38, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Inhibin alpha chain precursor.
GN INHA.
OS Trichosurus vulpecula (Brush-tailed possum).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Metatheria; Biptodontia; Phalangeridae; Trichosurus.
CX NCBI_TaxID:9337;
RN [1]
RX MEDLINE:99027340; PubMed:9801457;
RA Vamontfort D., Fidler A.E., Heath D.A., Lawrence S.B., Tisdall D.J.,
RA Greenwood P.J., McNatty K.;
RT "cDNA sequence analysis, gene expression and protein localisation of
RT the inhibin alpha subunit of Australian brushtail possum (Trichosurus
RT vulpecula).";
RL J. Mol. Endocrinol. 21:141-152(1998).
CC -!- FUNCTION: INHIBINS AND ACTIVINS INHIBIT AND ACTIVATE,
CC RESPECTIVELY. THE SECRETION OF FOLLITROPIN BY THE PITUITARY GLAND.
CC INHIBINS/ACTIVINS ARE INVOLVED IN REGULATING A NUMBER OF DIVERSE
CC FUNCTIONS SUCH AS HYPOTHALAMIC AND PITUITARY HORMONE SECRETION,
CC GONADAL HORMONE SECRETION, GERM CELL DEVELOPMENT AND MATURATION,
CC ERYTHROID DIFFERENTIATION, INSULIN SECRETION, NERVE CELL SURVIVAL,
CC EMBRYONIC AXIAL DEVELOPMENT OR BONE GROWTH, DEPENDING ON THEIR
CC SUBUNIT COMPOSITION. INHIBINS APPEAR TO OPPOSE THE FUNCTIONS OF
CC ACTIVINS.
CC -!- SUBUNIT: DIMERIC, LINKED BY ONE OR MORE DISULFIDE BONDS.
CC INHIBIN A IS A DIMER OF ALPHA AND BETA-A.
CC INHIBIN B IS A DIMER OF ALPHA AND BETA-B.
CC -!- SIMILARITY: BELONGS TO THE TGF-BETA FAMILY.
CC
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CC
CC EMBL; AF033340; AAC63945.1;
CC InterPro; IPR002405; Inhibin_alpha.
CC InterPro; IPR001839; TGFb.

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DR Pfam; PF00019; TGF-beta; 1.
DR PRINTS; PR00669; INHIBIN.
DR PRODOM; PD00357; TGFb; 1.
DR SMART; SM00204; TGFb; 1.
DR PROSITE; PS00250; TGF_BETA.1; 1.
KW Growth factor; Hormone; Glycoprotein; Signal.
FT SIGNAL 1 21 POTENTIAL.
FT PROPEP 22 230 BY SIMILARITY.
FT CHAIN 231 361 INHIBIN ALPHA CHAIN.
FT DISULFID 260 323 BY SIMILARITY.
FT DISULFID 289 358 BY SIMILARITY.
FT DISULFID 293 360 BY SIMILARITY.
FT DISULFID 322 322 INTERCHAIN (BY SIMILARITY).
FT CARBOHYD 48 48 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 144 144 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 266 266 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ SEQUENCE 361 AA; 38945 MW; D661CDF93CDAAB7D CRC64;

Query Match 86.7%; Score 124; DB 1; Length 361;
Best Local Similarity 84.0%; Pred. No. 7.7e-10;
Matches 21; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PWSPSALRLRLRPPEPAHAHANCHR 25
    ||||| ||||| ||||| ||||| |||||
Db 238 PWSPAALRLRLRPPEPAHADCHR 262

RESULT 9
ID IHA_CHICK STANDARD: PRT; 329 AA.
AC P43031; Q90708;
DT 01-NOV-1995 (Rel. 32, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Inhibin alpha chain precursor.
GN INHA.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
CX NCBI_TaxID:9031;
RN [1]
RX MEDLINE:94002740; PubMed:8399835;
RA Wang S.Y., Johnson P.A.;
RT "Complementary deoxyribonucleic acid cloning and sequence analysis of
RT the alpha-subunit of inhibin from chicken ovarian granulosa cells.";
RL Biol. Reprod. 49:453-458(1993).
CC REVISIONS.
CC STRAIN-White leghorn;
CC Johnson P.A., Chen C.C.;
CC Submitted (FEB-1996) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: INHIBINS AND ACTIVINS INHIBIT AND ACTIVATE,
CC RESPECTIVELY. THE SECRETION OF FOLLITROPIN BY THE PITUITARY GLAND.
CC INHIBINS/ACTIVINS ARE INVOLVED IN REGULATING A NUMBER OF DIVERSE
CC FUNCTIONS SUCH AS HYPOTHALAMIC AND PITUITARY HORMONE SECRETION,
CC GONADAL HORMONE SECRETION, GERM CELL DEVELOPMENT AND MATURATION,
CC ERYTHROID DIFFERENTIATION, INSULIN SECRETION, NERVE CELL SURVIVAL,
CC EMBRYONIC AXIAL DEVELOPMENT OR BONE GROWTH, DEPENDING ON THEIR
CC SUBUNIT COMPOSITION. INHIBINS APPEAR TO OPPOSE THE FUNCTIONS OF
CC ACTIVINS.
CC -!- SUBUNIT: DIMERIC, LINKED BY ONE OR MORE DISULFIDE BONDS.
CC INHIBIN A IS A DIMER OF ALPHA AND BETA-A.
CC INHIBIN B IS A DIMER OF ALPHA AND BETA-B.
CC -!- SIMILARITY: BELONGS TO THE TGF-BETA FAMILY.
CC
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CC
CC EMBL; AF033340; AAC63945.1;
CC InterPro; IPR002405; Inhibin_alpha.
CC InterPro; IPR001839; TGFb.

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CC EMBL: U48438; AAA92569.1; -.
 CC HSSP: P18075; 1BMP.
 CC InterPro: IPR002405; Inhibin_alpha.
 CC InterPro: IPR001839; TGFb.
 CC Pfam: PF00019; TGF-beta; 1.
 CC PRINTS: PR00669; INHIBINA.
 CC ProDom: PD000357; TGFb; 1.
 CC SMART: SM00204; TGFb; 1.
 CC PROSITE: PS00250; TGF_BETA_1; 1.
 CC Growth factor; Hormone; Glycoprotein; Signal.
 KW SIGNAL 1 16 POTENTIAL.
 FT PROPEP 1 216 POTENTIAL.
 FT CHAIN 217 329 INHIBIN ALPHA CHAIN.
 FT DISULFID 242 291 BY SIMILARITY.
 FT DISULFID 271 326 BY SIMILARITY.
 FT DISULFID 275 328 BY SIMILARITY.
 FT DISULFID 290 290 INTERCHAIN (BY SIMILARITY).
 FT CARBOHYD 135 135 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 248 248 N-LINKED (GLCNAC...) (POTENTIAL).
 SQ SEQUENCE 329 AA; 35853 MW; AE331687109A25A1 CRC64;

Query Match 71.3%; Score 102; DB 1; Length 329;
 Best Local Similarity 72.0%; Pred. No. 7.2e-07;
 Matches 18; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 PWSPSALRLQLRPPEPAHANCHR 25
 |||||:|||||:|||||
 DB 220 PWSPAALSLLQRPSEVAHNCRR 244

RESULT 10
 ID GP62_HUMAN STANDARD; PRT; 368 AA.
 AC Q9BZJ7;
 DT 15-JUN-2002 (Rel. 41, Created)
 DT 15-JUN-2002 (Rel. 41, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Probable G protein-coupled receptor GPR62.
 GN GPR62
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE:21105913; PubMed:11165367;
 RA Lee D.K., George S.R., Cheng K., Nguyen T., Liu Y., Brown M.,
 RA Lynch K.R., O'Dowd B.F.;
 RT "Identification of four novel human G protein-coupled receptors
 expressed in the brain."
 RL Brain Res. Mol. Brain Res. 86:13-22(2001).
 CC -!- FUNCTION: Orphan receptor.
 CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
 CC -!- TISSUE SPECIFICITY: Expressed in brain; detected in the basal
 CC forebrain, frontal cortex, caudate, putamen, thalamus and
 CC hippocampus.
 CC -!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
 CC
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 CC
 CC EMBL: AF317653; AAK12638.1; -.
 CC Genew: HGNC:13301; GPR62.
 CC MIM: 606917; -
 CC InterPro: IPR000276; GPCR_Rhodpsn.

DR Pfam: PF00001; 7tm_1; 1.
 DR PRINTS: PR00237; GPCR_RHODPSN.
 DR PROSITE: PS00237; G_PROTEIN_RECF_1; FALSE_NEG.
 DR PROSITE: PS50262; G_PROTEIN_RECF_2; 1.
 KW G-protein coupled receptor; Transmembrane; Glycoprotein.
 DOMAIN 1 18 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 19 39 1 (POTENTIAL).
 FT DOMAIN 40 53 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 54 74 2 (POTENTIAL).
 FT DOMAIN 75 91 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 92 112 3 (POTENTIAL).
 FT DOMAIN 113 129 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 130 150 4 (POTENTIAL).
 FT DOMAIN 151 177 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 178 198 5 (POTENTIAL).
 FT DOMAIN 199 239 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 240 260 6 (POTENTIAL).
 FT DOMAIN 261 272 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 273 293 7 (POTENTIAL).
 FT DOMAIN 294 368 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 239 285 ALA-RICH.
 FT CARBOHYD 3 3 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 8 8 N-LINKED (GLCNAC...) (POTENTIAL).
 SQ SEQUENCE 368 AA; 37628 MW; 9CFF95298D:2C75 CRC64;

Query Match 38.8%; Score 55.5; DB 1; Length 368;
 Best Local Similarity 66.7%; Pred. No. 1.9;
 Matches 12; Conservative 1; Mismatches 4; Indels 1; Gaps 1;

QY 2 WSPSPA-LRLQLRPPEPA 18
 |||||:|||||:
 DB 321 WHPRALQLQLRPPEGPA 338

RESULT 11
 ID TPO_CANFA STANDARD; PRT; 352 AA.
 AC P42705;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Thrombopoietin precursor (Megakaryocyte colony stimulating factor)
 DE (C-MPL ligand) (ML) (Megakaryocyte growth and development factor)
 DE (MGDF).
 GN TPO OR TPO.
 OS Canis familiaris (Dog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
 OX NCBI_TaxID=9615;
 RN [1]
 RP SEQUENCE FROM N.A., AND SEQUENCE OF 24-44.
 RC TISSUE-Kidney;
 RX MEDLINE=94291201; PubMed=8020099;
 RA Bartley T.D., Bogenberger J., Hunt P., Li Y.-S., Lu H.S., Martin F.,
 RA Chang M.-S., Samal B.B., Nichol J.L., Swift S., Johnson M.J.,
 RA Hsu R.-Y., Parker V.P., Suggs S., Skrine J.D., Merewether L.A.,
 RA Clogson C., Hsu E., Hokom M.M., Hornkohl A., Choi E., Pangelinan M.,
 RA Sun Y., Nar V., McNich J., Simonet L., Jacobsen F., Xie C.,
 RA Shutter J., Chute H., Basu R., Selander L., Trollinger D., Sieu L.,
 RA Padilla D., Trail G., Elliott G., Izumi R., Covey T., Crouse J.,
 RA Pacifici R., del Castillo J., Biron J., Cole S., Hu M.C.-T.,
 RA Bosselman R.A.;
 RT "Identification and cloning of a megakaryocyte growth and development
 RT factor that is a ligand for the cytokine receptor Mpl."
 RL Cell 77:1117-1117(1994).
 CC -!- FUNCTION: LINEAGE-SPECIFIC CYTOKINE AFFECTING THE PROLIFERATION
 CC AND MATURATION OF MEGAKARYOCYTES FROM THEIR COMMITTED PROGENITOR
 CC CELLS. IT ACTS AT A LATE STAGE OF MEGAKARYOCYTE DEVELOPMENT. IT
 CC MAY BE THE MAJOR PHYSIOLOGICAL REGULATOR OF CIRCULATING PLATELETS.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- DOMAIN: TWO-DOMAIN STRUCTURE WITH AN ERYTHROPOIETIN-LIKE N-
 CC TERMINAL AND A SER/PRO/THR-RICH C-TERMINAL.

ID SM6B_

UMAN STANDARD: 888 AA

Search completed: March 13, 2003, 12:35:43
Job time : 15 secs